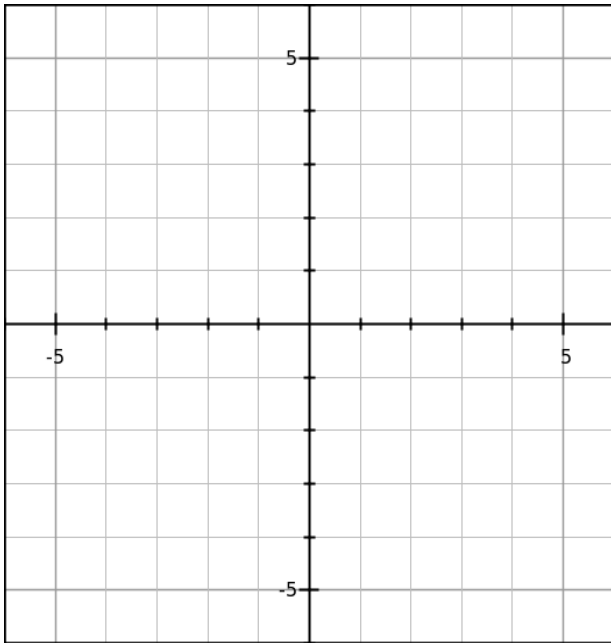
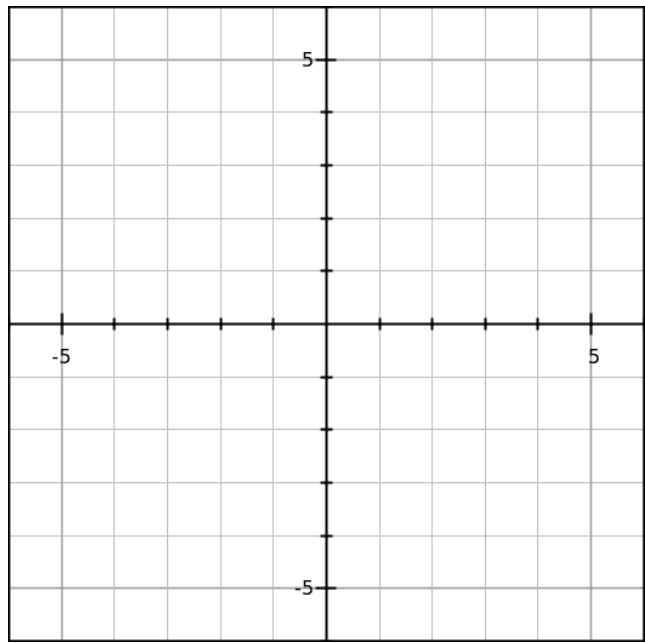


Solve by graphing



$$\begin{aligned} 3x + 2y &= 4 \\ -x + 3y &= -5 \end{aligned}$$



$$\begin{aligned} x + y &= -2 \\ 2x - 3y &= -9 \end{aligned}$$



7.2 Solving Linear Systems with Substitution DAY 1

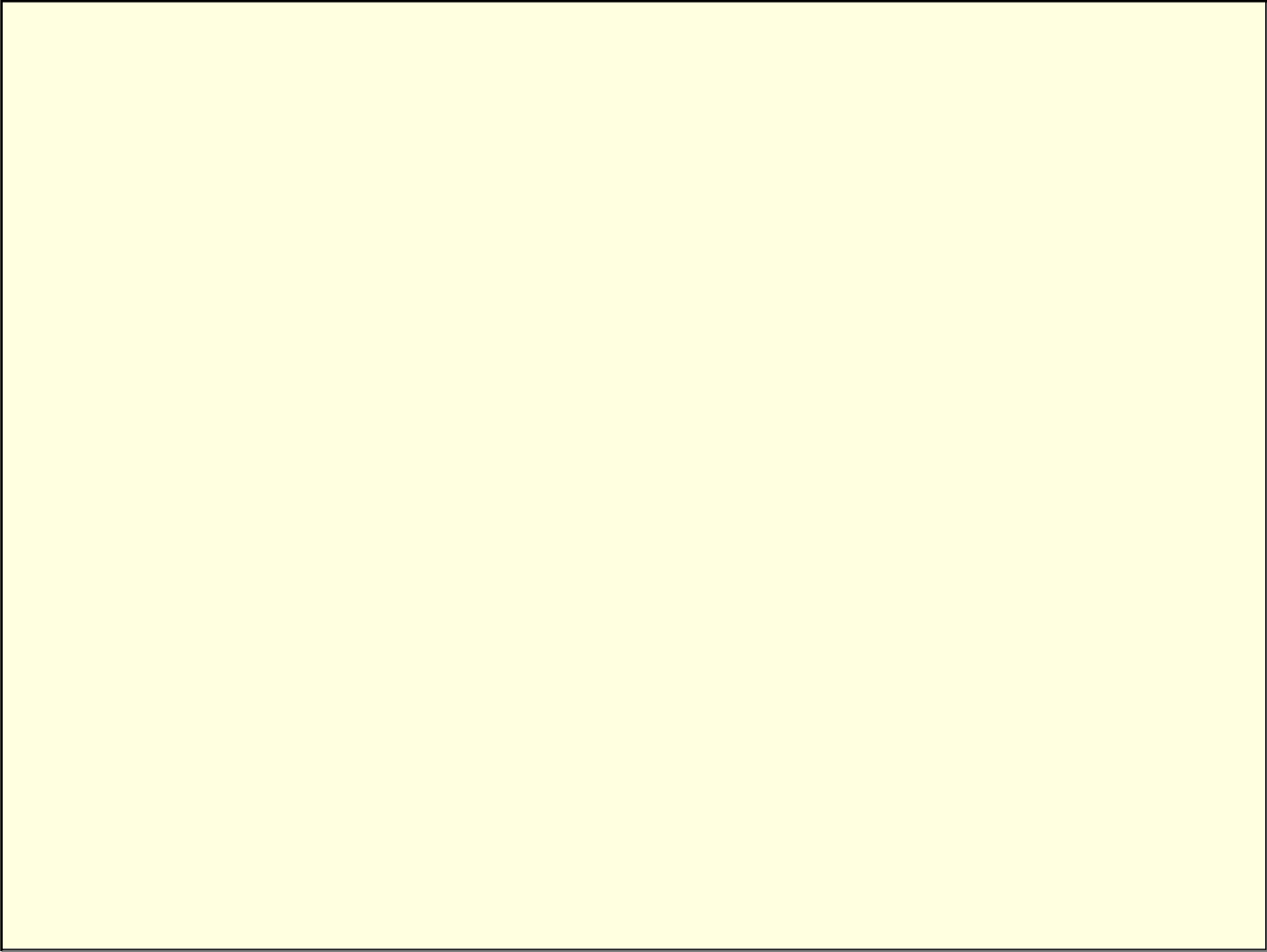
STEP 1

STEP 2

STEP 3

STEP 4

STEP 5



Solve with substitution and check!

**1. $y = 6x - 11$
 $-2x - 3y = -7$**



Solve with substitution and check!

$$\begin{aligned} 2. \quad y &= -2 \\ 4x - 3y &= 18 \end{aligned}$$



Solve with substitution and check!

**3. $-7x - 2y = -13$
 $x - 2y = 11$**



Solve with substitution and check!

**4. $2x + y = 20$
 $6x - 5y = 12$**



Homework:

★ WARM UP ★

★ 1. Solve by graphing ★

$$y = 3x - 4$$

$$y + 3x = 2$$

★ 2. Solve with substitution ★

$$2x + y = 20 \rightarrow y = -2x + 20$$

$$6x - 5y = 12$$

Check
#1

Check
#2

$$6x - 5(-2x + 20) = 12$$

Solve with substitution

**1. $2x + 6y = 15$
 $x = 2y$**

(3, 1.5)

$$\begin{aligned} 2. \quad & 3x + y = 3 \\ & 7x + 2y = 1 \end{aligned}$$

$$\begin{aligned} 3x + y &= 3 \\ -3x & \quad -3x \\ \hline y &= -3x + 3 \end{aligned}$$

$y = -3 \cdot -5 + 3$
 $y = 15 + 3$
 $y = 18$

$$\begin{aligned} 7x + 2(-3x + 3) &= 1 \\ 7x + -6x + 6 &= 1 \quad (-5, 18) \\ 1x + 6 &= 1 \\ -6 & \quad -6 \\ \hline 1x &= -5 \\ \hline x &= -5 \end{aligned}$$

$$(-5, 18)$$

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#17-34

$$x = 2\cancel{x} + 6$$

$$7y - 2\cancel{x} = 10$$

$$7y - 2(2x + 6) = 10$$